



Indiana Department of Environmental Management  
Office of Water Quality  
Wetlands Section

**Publication Date:**  
October 21, 2020

**Closing Date:**  
November 11, 2020

**IDEM ID Number:**  
2020-794-64-MTM-A

**Corps of Engineers ID Number:**

## PUBLIC NOTICE

**To all interested parties:**

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

- 1. Applicant:** Porter County Board of Commissioners  
155 Indiana Ave., Suite 311  
Valparaiso, IN 46383
- 2. Agent:** USI Consultants, Inc.  
6415 E. 56<sup>th</sup> St.  
Indianapolis, IN 46216
- 3. Project location:** 1265 N. Brummitt Rd., Chesterton, IN 46304.  
N. Brummitt Road over the East Arm of the Little Calumet River, Porter County  
Latitude: 41.615497, Longitude: -87.016639
- 4. Affected waterbody:** East Arm of the Little Calumet River
- 5. Project Description:** The applicant proposes to replace Porter County Bridge 168 over the East Arm of the Little Calumet River. The project will result in a total of 0.097 acre of impact to contiguous wetlands and the placement of riprap along 51 lf of stream bank for stabilization. The alignment of the new structure will be shifted west to minimize the amount of property that will need to be acquired as well as to minimize the impacts to the Wykes-Plampin Nature Preserve to the east of the existing structure.

**Comment period:** Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

**Public Hearing:** Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

**Questions?** Additional information may be obtained from Marty Maupin, Project Manager, by phone at 317-233-2471 or by e-mail at [mmaupin@idem.in.gov](mailto:mmaupin@idem.in.gov). Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management  
100 North Senate Avenue  
MC65-42 WQS IGCN 1255  
Indianapolis, Indiana 46204-2251 FAX: 317/232-8406



**JOINT IDEM-DNR WATERWAYS APPLICATION FOR CONSTRUCTION AND FOR DISCHARGE OF DREDGED OR FILL MATERIAL TO WATERS OF THE STATE**

State Form 56893 (1-20)  
Indiana Department of Environmental Management  
Indiana Department of Natural Resources

Agency Use Only	
This project meets the terms and conditions of the RGP and/or NWP WQC for the State of Indiana. <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Received (mm/dd/yyyy)	Processing Date (mm/dd/yyyy)
IDEM Identification Number	DNR Permit Identification Number

**Section 1 – All DNR and all IDEM Section 401 and/or Isolated Wetlands Applicants Complete this Section.**

Permit Type	Application Fee	Permit Type	Application Fee
<input type="checkbox"/> IC 14-26-2 Lake Preservation Act (DNR)	\$100.00	<input type="checkbox"/> IC 14-29-3 Sand and Gravel Permits Act (DNR)	\$50.00
<input type="checkbox"/> IC 14-26-5 Lowering of the Ten Acre Lake Act (DNR)	\$25.00	<input type="checkbox"/> IC 14-29-4 Construction of Channels Act (DNR)	\$100.00
<input type="checkbox"/> IC 14-29-1 Navigable Waterways Act (DNR)	No Fee	<input type="checkbox"/> IC 13-18-22 Isolated Wetlands Law (IDEM)	No Fee
		<input type="checkbox"/> 33 USC 1341 Clean Water Act Section 401 (IDEM)	No Fee
<input checked="" type="checkbox"/> IC 14-28-1 Flood Control Act (Select one of the following.) <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Excavation, fill, or non-residential construction in a floodway</li> <li><input type="checkbox"/> Residential reconstruction in a floodway, other than the Ohio River Floodway</li> <li><input type="checkbox"/> Residential construction, or reconstruction, in the Ohio River floodway</li> </ul>			\$200.00 \$50.00 \$10.00
<p>A construction project in a floodway requires a permit application review that includes a hydrologic and hydraulic evaluation to determine the effect a project may have on the base flood elevation and an environmental review to determine the impact a construction project may have on fish, wildlife, and botanical resources. <b>Refer to this form's instructions for further information regarding required application materials.</b></p>			
Regulatory Fees Submitted 10/8/2020 FW 30746			
Payment Method Credit Card in E-Portal (confirmation included)			
Project Name or Title Des. No. 1702828 Porter County Bridge #064-00168 Replacement. CR 250 E over East Arm Little Calumet River		Type and name of aquatic resource to be impacted East Arm Little Calumet River, Wetland 1 (PF01A), Wetland 3 (PF01A)	

**1. Property Owner Information**

Name of Property Owner Porter County Board of Commissioners
Mailing Address (Street/ PO Box/ Rural Route, City, State, ZIP Code) 155 Indiana Ave, Suite 311, Valparaiso, IN 46383
Daytime Telephone Number 219-465-3674
E-mail Address rthompson@porterco.org
Relationship of Applicant to Property Owner: <input type="checkbox"/> Purchaser <input type="checkbox"/> Lessee <input checked="" type="checkbox"/> Other Same as Applicant

2. Applicant Information (if not property owner)		3. Agent Information (if not property owner or applicant)	
Name of Applicant Same as owner		Name of Agent USI Consultants, Inc.	
Mailing Address (Street/ PO Box/ Rural Route, City, State, ZIP Code)		Mailing Address (Street/ PO Box/ Rural Route, City, State, ZIP Code) 8415 E 56th St. Indianapolis, IN 46216	
Daytime Telephone Number		Daytime Telephone Number 317-522-2484	
E-mail Address rthompson@porterco.org		E-mail Address rwaggoner@usiconsultants.com	
Contact Person Bob Thompson		Contact Person Ross Waggoner	
4. Project / Tract Location			
County Porter		Nearest City or Town Chesterton	
Project Street Address (Number and Street, City, State, ZIP Code) 1265 N Brummitt Rd, Chesterton, IN, 46304			
Latitude (decimal degrees) 41.615497		Longitude (decimal degrees) -87.016639	
Parcel Number N/A			
Location Narrative / Driving Directions From the intersection of I-80/90 (Toll Road) and IN-49, head north on IN-49 for 2.3 miles. Turn right onto 1200 N/E Porter Ave for 1.2 miles. Turn left on N CR-250 E for .3 miles. Continue onto E 1225 N for .2 miles. Turn on left onto N Brummitt Rd. and reach the structure after .4 miles.			
Special Information Project site is adjacent to Wykes-Plampin Nature Preserve Parking Area. The Nature Preserve is managed by the Shirley Heinz Land Trust (SHLT). The SHLT has been coordinated with throughout the project, specifically the NEPA process and Coordination Letters.			
5. Project Purpose and Description			
Has any construction been started? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Anticipated start date (month, day, year) January 2022	
If yes, how much work is completed? N/A			
Purpose of project and description of activities The need for the project is due to the existing condition of the individual members of the existing bridge. The bridge deck is rated 4 out of 9 (Poor) due to advanced deterioration; the wearing surface is rated 6 out of 9 (Satisfactory) due to minor cracks; the superstructure is rated 4 out of 9 (Poor) due to the extent of the channel beam deterioration, with advanced spalling and exposed rusted rebar in the beams; the substructure is rated 6 out of 9 (Satisfactory) with leaking on the abutments and surface rust at the top of the piles; and the channel is rated 5 out of 9 (Bank eroded/Major damage) due to major bank erosion that has led to undercutting of the existing concrete slopewalls. There is a utility pipe on the east side of the bridge that is supported by wooden piles that have rotted and will eventually fail. Additionally, the bridge is not adequately sized for the flow of the East Arm Little Calumet River and experiences overtopping during high water events. The bridge has a posted load rating of 16 tons which is set to be lowered to 14 tons following the most recent routine bridge inspection. The bridge has a sufficiency rating of 37.1 out of 100, which indicates that it is deficient for vehicular traffic.  The existing bridge is a three-span reinforced concrete beam bridge that is approximately 78 feet in length and is 26'-4" feet in width. The proposed improvements include removing and replacing the existing bridge with a new three-span reinforced concrete slab bridge that will be 125'-5" feet in length and 34'-2" in width.  The proposed bridge replacement spans the East Arm Little Calumet River and will result in permanent impacts below the ordinary high-water mark (OHWM). East Arm Little Calumet River is a listed designated salmonid stream. Consultation with USFWS has occurred during the project development, specifically during the NEPA document process. USFWS and IDNR DFW coordination included herein. Temporary cofferdams and dewatering will temporarily impact the East Arm Little Calumet River for the bridge replacement. Cofferdams will be phased to maintain water passage. Temporarily impacted areas will be restored to their previous condition upon completion of the bridge replacement.  Riprap will be placed along the banks of the East Arm Calumet River to reduce channel scour. The alignment of the new structure will be shifted slightly west to minimize the amount of property that will need to be acquired as well as to minimize the impacts to the Wykes-Plampin Nature Preserve to the east of the existing structure.			



## 6. Avoidance, Minimization, and Mitigation Information

A. For projects with adjacent wetlands, and/or floodway, streams, rivers, lakes, or other water bodies:

1. Is there a practical alternative to the proposed activity? *Explain.*

Alternatives were evaluated during the preliminary design and selection of structure size and type. The selected alternative resulted in the least environmental impacts and is an economically feasible solution. The no build alternative to this bridge replacement would minimize impacts to wetlands. However, this solution would not meet the needs of the vehicular traffic carried by the bridge, nor would it meet the goals of the project to increase the individual rating of each bridge component to 8 out of 9. Relocation of the road would further impact the wetlands, as they have a wide extent beyond the bridge. A single span bridge option was considered to avoid pier construction in the channel. However, it would require raising the roadway by more than 2 feet, subsequently requiring additional right of way acquisition and environmental impacts.

2. Have practical and appropriate steps to minimize impacts to water resources and floodway been taken? *Explain.*

Avoidance and minimization efforts to impacts to waterways have been taken during the project design. The proposed structure replacement and roadway alignment was placed in order to minimize the impact the quality adjacent wetlands. The structure size and type allowed for minimal roadway grade change that resulted in lessening the fill placement into the adjacent wetland resources and UNT #1, UNT #2 and UNT #3. Additionally, the proposed roadway alignment correction was designed to minimize the disturbance of the adjacent wetland and tributaries.

Describe all compensatory mitigation proposed for unavoidable impacts.

Site restoration will utilize native plantings for restoration of disturbed vegetation. The project impacts less than mitigation thresholds as described in the NRC Bulletin 17. Tree mitigation for floodway tree removal will occur offsite within the same 8-digit HUC. The project will coordinate with the Shirley Heinz Land Trust to offer plantings in their nature preserves in the vicinity of the project.

## 7. Adjoining Property Owners and Addresses

List the names and addresses of all landowners whose property is both within 0.25 mile of the project **and** is adjacent to the property on which your project is located. Also list the names and addresses of other persons (or entities) potentially affected by your project. Use additional sheet(s) if required.

Name School Duneland Corporation	Name Roth Charles M and Annette M/H &W
Address (number and street) 601 W Morgan Ave. Ofc	Address (number and street) 1247 N Brummitt Rd.
City Chesterton State IN ZIP Code 46304	City Chesterton State IN ZIP Code 46304
Name Troop Marc & Turich Kathryn/JT	Name
Address (number and street) 1238 N Brummit Rd.	Address (number and street)
City Chesterton State IN ZIP Code 46304	City State ZIP Code
Name Shirley Heinze Land Trust Inc.	Name
Address (number and street) 109 W 700 N	Address (number and street)
City Valparaiso State IN ZIP Code 46385	City State ZIP Code
Name Basinger John W & Shirley A Revocable Living Trust	Name
Address (number and street) 1243 N Brummitt Rd, C/O Julie Ann Schavey	Address (number and street)
City Chesterton State IN ZIP Code 46304	City State ZIP Code
Name Roth Charles M Jr.	Name
Address (number and street) 1248 N Brummitt Rd.	Address (number and street)
City Chesterton State IN ZIP Code 46304	City State ZIP Code

**8. Drawing / Plan Requirements (Applicants must provide the following.)**

On each drawing / plan include a title block which details the applicant name, agent name, project title, date, scale bar, and properly oriented north arrow.

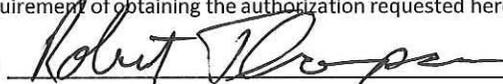
- A. Project location maps: aerial maps showing the project location and general vicinity within 0.5 mile to 1 mile of the project location.
- B. Project site maps: aerial maps of the project site showing existing conditions. Include project site limits, all existing surface waters, existing structures, property lines, and distances from roadways / landmarks as applicable.
- C. Disturbed area drawings: drawings and maps detailing proposed construction, fill and excavation locations, disposal areas for excavated materials (including quantities to be disposed), and erosion control measures. Drawings must include vegetation type(s) e.g. forest, wetlands, crop field, etc., size of the disturbed area(s), distance(s) to the top of bank or shoreline, and right(s)-of-way.
- D. At least three color, land-based photographs of the project site and an associated photo orientation map.
- E. Project detail maps: cross section view(s) showing an overlay comparison of the pre-construction conditions and post-construction conditions of the effective cross sectional flow area at the most restrictive segment(s) of the encroachment. Cross section(s) should be stationed left to right, looking downstream, full valley, and oriented perpendicular to flow. Cross sections should also include ordinary high water mark elevations, approximate water depths, existing bed and bank conditions and proposed bed and bank conditions.

**9. Signature-Statement of Affirmation**

I swear or affirm, under penalty of perjury as specified by IC 35-44.1-2-1 and other penalties specified by IC 13-30-10 and IC 13-15-7-1(3), that the statements and representations in this application are true, accurate, and complete.

I certify that I have the authority to undertake and will undertake the activities as described in this application. I understand that any changes in project design subsequent to IDEM's and DNR's granting of authorization to discharge to a water of the state or floodway are not authorized and I may be subject to civil and criminal penalties for proceeding without proper authorization. I agree to allow representatives of the IDEM and DNR to enter and inspect the project site. I understand that the granting of other permits by local, state, or federal agencies does not release me from the requirement of obtaining the authorization requested herein before commencing the project.

Applicant's Signature:



Date:

10/01/2020  
(mm/dd/yyyy)

Print Name:

Robert Thompson, AICP

Title:

Director of Development and Storm Water

**Section 2 – Only IDEM Section 401 WQC and Isolated Wetland Permit Applicants Complete this Section.**

**Worksheet – Summary of Onsite Water Resources and Project Impacts**

A. Jurisdictional Wetlands (Existing Conditions)			Jurisdictional Wetlands (Proposed Impacts)		
Wetland Type	Size of Wetland (acreage)	To be Impacted?	Acreage	Fill quantity (cys)	ATF
<input type="checkbox"/> EM <input type="checkbox"/> SS <input checked="" type="checkbox"/> FO	0.91	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input checked="" type="checkbox"/> FO	0.56	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0.095	306.48	-
<input type="checkbox"/> EM <input type="checkbox"/> SS <input checked="" type="checkbox"/> FO	0.07	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0.002	3.19	-
<input type="checkbox"/> EM <input type="checkbox"/> SS <input checked="" type="checkbox"/> FO	0.39	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> EM <input type="checkbox"/> SS <input type="checkbox"/> FO		<input type="checkbox"/> Yes <input type="checkbox"/> No			

Describe the type and composition of fill material to be placed in wetlands on the project site.

Fill placement consists of clean fill for roadway grade raise and revetment riprap for scour protection and stream bank erosion protection.

Describe the type and composition and quantity (cubic yards) of material proposed to be dredged or excavated from wetlands on the project site.

N/A

B. Isolated Wetlands (Existing Conditions)			Isolated Wetlands (Proposed Impacts)			
Wetland Class	Type	Size of Wetland (acreage)	To be Impacted?	Acreage	Fill quantity (cys)	ATF
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> NF <input type="checkbox"/> F		<input type="checkbox"/> Yes <input type="checkbox"/> No			

Describe the type and composition of fill material to be placed in isolated wetlands on the project site.

N/A

Describe the type and composition and quantity (cubic yards) of material proposed to be dredged or excavated from isolated wetlands on the project site.

N/A

**C. Lake and/or Open Water Fill**

Water body name

N/A

Description of impacts

N/A

Length of shoreline impacts (feet)

N/A

Area of water body to be filled (acres)

N/A

Type of fill and volume (cubic yards)

N/A

**D. Stream Impact Table**

*(Enter each impact location on its own line. Two separate impact locations on the same stream should be entered as two lines in the table.)*

*Additional sheets may be added if needed.*

All Projects	Encapsulation			Streambank Protection			Relocation		All Projects					
Impact Site Information	Size of Existing Structure (Span x Rise)	Existing Linear Feet of Encapsulation	Size of Proposed Structure (Span X Rise)	Proposed Linear Feet of Encapsulation	Linear Feet of Streambank Protection	Cubic Yards of Fill Below OHWM	Acres of Fill Below OHWM	Linear Feet of Existing Channel	Linear Feet of Proposed Channel	Ordinary High Water Mark Depth (Feet)	Ordinary High Water Mark Width (Feet)	Total Permanent Linear Feet of Impact	Total Acres of Permanent Impacts	Proposed Linear Feet of Mitigation
Enter the following information in the boxes below: <ul style="list-style-type: none"> <li>• Stream Name <i>(or other identifier if not named)</i></li> <li>• Stream Location                             <ul style="list-style-type: none"> <li>○ Use Structure Number, Latitude and Longitude, Address, or Stationing</li> </ul> </li> <li>• Type of Impacts <i>(as applicable)</i> <ul style="list-style-type: none"> <li>○ Encapsulation, Open Relocation, Piped Relocation, Grading/ Dredging, etc.</li> </ul> </li> <li>• Type of Streambank Protection <i>(as applicable)</i> <ul style="list-style-type: none"> <li>○ Riprap, Ajax, Articulated Concrete Matting, etc.</li> </ul> </li> <li>• Type of Fill and Volume of Fill <i>(cubic yards)</i></li> </ul> Complete the other columns in this table as applicable to your project.														
East Arm Little Calumet River	78x24	78	125.5 x 39.1	125	51.5'	91.27	0.019	175.5'	175.5'	4.0'	45.0'	79.5'	0.019	0
UNT 1 (to East Arm Little Calumet River)	0	0	0	0	0	0	0	240.5'	240.5'	1.0'	5.0'	0	0	0
UNT 2 (to UNT 1 to East Arm Little Calumet River)	0	0	0	0	0	0	0	34.0'	34.0'	1.0'	3.0'	0	0	0
UNT 3 (to UNT 1 to East Arm Little Calumet River)	0	0	0	0	0	0	0	36.5'	36.5'	0.5'	3.0'	0	0	0

### 1. Isolated Wetland Avoidance, Minimization, and Mitigation Information

A. For projects with Class III isolated wetland:

1. Is there a practical alternative to the proposed activity?

N/A

2. Have practical and appropriate steps to minimize impacts to water resources and floodway been taken?

N/A

B. For projects with Class II isolated wetlands:

1. Is there a reasonable alternative to the proposed activity?

N/A

2. Is the proposed activity reasonably necessary or appropriate?

N/A

Describe all compensatory mitigation proposed for unavoidable impacts to isolated wetlands.

N/A

### 2. Supplemental Application Materials (*Applicants must provide the following.*)

A. A wetland delineation of all wetlands on the project site (*for projects with wetland impacts*). Include maps showing all wetland boundaries and related data points, and all proposed mitigation areas. Label all wetlands (jurisdictional, isolated, and exempt) as I-1, I-2, I-3, etc. and the mitigation areas as M-1, M-2, etc.

B. Wetland and/or stream mitigation plan and monitoring report (*when applicable*).

C. Copies of all applicable local permits and/or resolutions pertaining to the project or tract.

D. Tract history (*see instructions*).

E. When isolated wetlands are present, submit the following:

- A letter from the Corps of Engineers verifying isolated status.
- Classification of all isolated wetlands on the tract.

### 3. Additional Information that MAY be required (*IDEM will notify you if needed.*)

A. Erosion control and/or stormwater management plans.

B. Sediment analysis.

C. Species surveys for fish, mussels, plants and threatened or endangered species.

D. Stream habitat assessment.

E. Any other Information IDEM deems necessary to review the proposed project.

### 4. Related Permitting Information

A. Based on correspondence with the US Army Corps of Engineers, does this project require the issuance of a Department of the Army Section 404 Permit from the US Army Corps of Engineers?

Yes  No  Undetermined at this time *If no, you do not need to answer Part B.*

B. Have you applied for an Army Corps of Engineers Section 404 permit?  Yes  No

*If yes, please supply the Corps of Engineers ID Number, the Corps of Engineers District, the project manager, and a copy of any correspondence with the Corps. If no, contact the Army Corps of Engineers regarding the possible need for a permit application.*

USACE project ID LRC-2020-0087

THIS NOTICE IS NOT AN APPROVAL  
OR A DENIAL OF THE PROJECT



Indiana Department of Natural Resources, Division of Water  
402 West Washington Street, Room W264, Indianapolis, IN 46204-2641  
(317) 232-4160; toll free (877) 928-3755; FAX (317) 233-4579  
Email: [water\\_inquiry@dnr.in.gov](mailto:water_inquiry@dnr.in.gov) Webpage: [www.in.gov/dnr/water](http://www.in.gov/dnr/water)

## **Electronic Permit Application Acknowledgement Notice and Minimum Permit Application Submittal Requirements**

Date: 10/8/2020

**Application #: FW-30746-0**

Deficiency Access Code: xr4w9zhwbk

This notice acknowledges that an electronic permit application was received at the DNR, Division of Water. The DNR permit application number assigned to this application is listed above. When contacting the Department staff or submitting additional information relating to this application, please reference this permit application number.

### **Minimum Permit Application Submittal Requirements**

The Minimum Permit Application Submittal Requirements listed below must be provided to the Division of Water in order for staff to initiate the review of the application. Failure to submit the minimum submittal requirements can result in denial of the permit application.

**Deadline for submitting the following minimum submittal requirements is October 15, 2020**

For questions concerning the following requirement(s), contact the Division of Water, Technical Services Section by email at [water\\_inquiry@dnr.in.gov](mailto:water_inquiry@dnr.in.gov) or by telephone at 317-232-4160 or toll-free at 1-877-928-3755 and select 1 during the recorded menu narrative. Provide the Application # to assist staff to expedite a response.

#### **Intake:**

6782

You must serve Public Notice to the adjacent landowners and you must provide proof to the Department that Public Notice has been provided in accordance with the provisions of the Procedures Concerning Certain Licenses Act, IC 14-11-4, and Administrative Rule 312 IAC 2-3. The Public Notice instructions and forms can be found on our webpage at [www.in.gov/dnr/water/2455.htm](http://www.in.gov/dnr/water/2455.htm).

Note: You do not have to wait to submit the remaining items listed below while you are completing the Public Notice requirements.

6783

A signed Statement of Affirmation. The Statement of Affirmation can be found on our webpage at <http://www.in.gov/dnr/water/2450.htm>.

Review the information in this Notice, under Electronic Permit Application Information, to verify the accuracy of the information received in the electronic application. If the information is incorrect, report the error(s) to ensure the application is processed correctly and in a timely manner.

6784

A map that clearly identifies the location of the proposed project site in relationship to the waterway and surrounding roadways.

6785

An aerial plan view that illustrates disturbed area of the project site. Plans require horizontal and vertical scale, north arrow, labels, stations, and date.

- 6786 A plan view that illustrates the proposed project's construction components. Indicate permanent and temporary components throughout the project site.
- 6787 A cross-section view(s) showing an overlay comparison of the pre-construction conditions and post-construction conditions of the effective cross-sectional flow area at the most restrictive segment(s) of the encroachment. cross-sections should be stationed left to right, looking downstream, full-valley, and oriented perpendicular to flow. Note: Assumed elevations can be used for the cross-section(s)
- 6788 A plan view that clearly marks the location(s) and label(s) of the cross-section(s)
- 6789 Describe the methodology used to compute the cross-sectional area, e.g. identify the software or show computations
- 6790 Provide evidence that the project will not have adverse effects on the base flood elevation and fish, wildlife, and botanical resources by completing the appropriate Non-Modeling Hydraulic Assessment Worksheet or a hydrologic-hydraulic computer model assessment. Non-Modeling Hydraulic Assessment Worksheets can be found at <https://www.in.gov/dnr/water/2455.htm>. The Guidelines for the Hydrologic-Hydraulic Assessment can be found at <https://www.in.gov/dnr/water/5710.htm>.
- 6791 Photos that illustrate the natural and manmade surroundings, e.g.:  
1) from the project site, a downstream view of the channel  
2) from the project site, an upstream view of the channel  
3) from a downstream streambank, a view of the project site  
4) from an upstream streambank, a view of the project site  
Label orientation of each photo

### **How to Submit the Minimum Submittal Requirements**

Deficiency Access Portal: This option is under maintenance at this time. Please choose one of the other options listed below.

Email: To email the document(s) to the DNR, Division of Water, scan and save the document as pdf documents and attach the document(s) to an email addressed to [water\\_inquiry@dnr.in.gov](mailto:water_inquiry@dnr.in.gov). Reference the file number shown at the beginning of this Notice. Please Note: Attachments must be 20MB or less; attachments greater than 20MB should be sent over multiple emails. If sending multiple emails with attachments please reference the count - i.e. 1 of 2.

FAX: To fax a copy of the document(s), fax to (317) 233-4579. Reference the file number shown at the beginning of this Notice.

U.S. Postal Mail: To mail a copy of the document(s), mail to Indiana Department of Natural Resources, Division of Water, 402 West Washington Street, Room W264, Indianapolis, IN 46204-2641. Reference the file number shown at the beginning of this Notice.

Hand Delivery: Documents can be hand-delivered to DNR, Division of Water, 402 West Washington Street, Room W264, Indianapolis, IN 46204-2641 during normal business hours, Monday through Friday 8:00 a.m. to 4:30 p.m, EST excluding all State recognized holidays. We recommend you call the DNR, Division of Water at 317-232-4160 or toll-free at 1-877-928-3755 in advance of your visit to insure a qualified staff person will be available to assist you.

You can monitor the status of your application on-line at <https://dowunity.dnr.in.gov/#>. If you have any questions regarding the status of your permit application, contact the Division of Water, Technical Services Section by email at [water\\_inquiry@dnr.in.gov](mailto:water_inquiry@dnr.in.gov) or by telephone at 317-232-4160 or toll-free at 1-877-928-3755 and select 1 during the recorded menu narrative.

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### **Electronic Permit Application Information**

Applicant: Porter County Board of Commissioners, Robert W Thompson, 155 Indiana Avenue, Suite 311, Valparaiso, IN 46383

Phone #: 219-465-3674

FAX #:

Email: rthompson@porterco.org

Agent: USI Consultants Inc, Ross Waggoner, 8415 East.56th Street, Indianapolis, IN 46240

Phone #: 317-667-6465

FAX #:

Email: rwaggoner@usiconsultants.com

Waterbody: East Arm Little Calumet River

Local Name:

Description Narrative: The existing bridge is a three-span reinforced concrete beam bridge that is approximately 78 feet in length and is 26'-4" feet in width. The proposed improvements include removing and replacing the existing bridge with a new three-span reinforced concrete slab bridge that will be 125'-5" feet in length and 34'-2" in width.

The proposed bridge replacement spans the East Arm Little Calumet River and will result in permanent impacts below the ordinary high-water mark (OHWM). East Arm Little Calumet River is a listed designated salmonid stream. Consultation with USFWS has occurred during the project development, specifically during the NEPA document process. USFWS and IDNR DFW coordination included herein. Temporary cofferdams and dewatering will temporarily impact the East Arm Little Calumet River for the bridge replacement. Cofferdams will be phased to maintain water passage. Temporarily impacted areas will be restored to their previous condition upon completion of the bridge replacement.

The project is federally funded INDOT Des. No. 1702828.

Project Location: The project is located in Porter County near the Town of Chesterton on CR 250 E (Brummitt Rd) over the East Arm of Little Calumet River.

Latitude 41.615497

Longitude -87.016639 at Chesterton

**Application Fee:**

This Notice is Not a Bill – Do not remit payment at this time.

The online service to submit a DNR, Division of Water permit application is provided by a third party working in partnership with the State. The fee includes the third party's costs to operate, maintain and enhance the State's computer gateway, IN.gov and eCommerce services.

The application fee associated with the "Permit Type" that was selected in the electronic application process will be charged along with the third party's costs is as follows:

DNR, Division of Water Application fees:

\$200 for applications submitted under the Flood Control Act, IC 14-28-1, for excavation, fill, or non-residential construction in a floodway

\$100 for applications submitted under the Lake Preservation Act, IC 14-26-2, or the Construction of Channels Act, IC 14-29-4

\$50 for applications submitted under the Sand and Gravel Permits Act, IC 14-29-3

\$25 for applications submitted under the Lowering of the Ten Acre Lake Act, IC 14-26-5

\$10 for applications submitted under the Flood Control Act, IC 14-28-1, for residential construction in the Ohio River floodway

\$25 for applications submitted under the Flood Control Act, IC 14-28-1, for residential reconstruction, other than the Ohio River floodway

The third party's fees:

\$15.00 plus \$1.00 and 1.9% of the total charges

**Additional Permitting Agencies:**

In addition to authorization from the DNR, Division of Water, you may also be required to obtain a permit from, or coordinate with, the following agencies. Contact with these agencies is your responsibility.

Local floodplain administrator, plan commission, zoning, and county drainage board.

Indiana Department of Environmental Management, call (317) 233-8488 or (800) 451-6027. Visit their webpage at [www.in.gov/idem](http://www.in.gov/idem).

U.S. Army Corps of Engineers under Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act. Visit their webpage at [www.usace.army.mil/](http://www.usace.army.mil/).

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Copies of this Notice was provided to the following Parties.

Applicant: Porter County Board of Commissioners, Robert W Thompson  
Agent: USI Consultants Inc, Ross Waggoner

**Porter County Bridge 168 (CR 250 E over East Arm Little Calumet River Des. No. 1702828)**

The project is in northern Porter County in Westchester Township, Indiana. Specifically, the project is in Section 32, Township 37 North, Range 5 West as shown on the Chesterton, Indiana US Geological Survey (USGS) 7.5-minute quadrangle map. The project corridor begins south the bridge carrying CR 250 East/Brummitt Road over the East Arm Little Calumet River and terminates near Brummitt Elementary School north of the existing bridge. The project is within the Northwest Indiana Regional Planning Commission (NIRPC) area of jurisdiction. The project will be approximately 0.13 mile/700 feet in length. The proposed project is federally funded and the NEPA document has been submitted to INDOT for approval.

The existing bridge (Bridge No 64-00168, NBI 6400098) is a three-span concrete channel beam bridge that is approximately 78 feet in length and provides 24.4 feet of clear roadway width. The bridge is not considered historic in the Indiana Historic Bridge Collection. The need for the project is due to the existing condition of the individual members of the bridge. The bridge deck is rated 4 out of 9 (Poor) due to advanced deterioration; the wearing surface is rated 6 out of 9 (Satisfactory) due to minor cracks; the superstructure is rated 4 out of 9 (Poor) due the extent of the channel beam deterioration, with advanced spalling and exposed rusted rebar in the beams; the substructure is rated 6 out of 9 (Satisfactory) with leaking on the abutments and surface rust at the top of the piles; and the channel is rated 5 out of 9 (Bank eroded/Major damage) due to major bank erosion that has led to undercutting of the existing concrete slopewalls.

There is a 6" medium pressure gas line on the east side of the bridge that is supported by wooden piles that have rotted and will eventually fail. Additionally, the bridge is not adequately sized for the flow of the East Arm Little Calumet River and experiences overtopping during high water events. The bridge has a posted load rating of 16 tons which is set to be lowered to 14 tons following the most recent routine bridge inspection. The bridge has a sufficiency rating of 37.1 out of 100, which indicates that it is deficient for vehicular traffic. The purpose of this project is to raise the individual rating of each of the members to at least 8 out of 9. A secondary purpose of this project is to provide a waterway opening to minimize the occurrence of overtopping of the roadway during high water events.

Water Resources identified in the project area consist of East Arm Little Calumet River, three (3) Unnamed Tributaries, and four (4) forested wetlands. The proposed bridge replacement spans the East Arm Little Calumet River and will result in permanent impacts below the ordinary high-water mark (OHWM). Proposed construction of interior piers will impact the East Arm Little Calumet River 79.5 LFT, 0.019 acre, and 91.27 CYD. Wetland 2 will be permanently impacted by earthen fill for the proposed roadway embankment 0.095 acre and 306.48 cyd. Additionally, Wetland 3 will permanently be impacted by the proposed roadway embankment 0.002 acre and 3.19 cyd. Impacts to the Three (3) Unnamed tributaries were avoided during design and are generally located beyond the proposed Right-of-Way. Impacts to Wetland 1 and Wetland 4 were also avoided during design but are located within the proposed Right-of-Way, but not within the construction limits.

Tree removal will occur for the proposed project. 26 total trees greater than 10" dbh will be removed. The project anticipates to mitigate tree removal within the floodway at an offsite location within the 8-digit HUC due to utility constraints within the proposed Right-of-Way. Site restoration and erosion control plans will be developed as the design progresses. Native seed mix and plantings will be utilized to establish appropriate post-construction conditions.

Early coordination and correspondence with agencies are included herein. The IDNR FW-30746, Early Coordination ER-22186. USACE project ID LRC-2020-0087. The Natural Heritage Database was checked for Endangered Threatened and Rare Species was checked with no species listed for special consideration. The Wykes-Plampin Nature Preserve is managed by the Shirly Heinz Land Trust (SHLT) and is located directly adjacent to the project. Coordination with the SHLT is ongoing throughout the NEPA document.

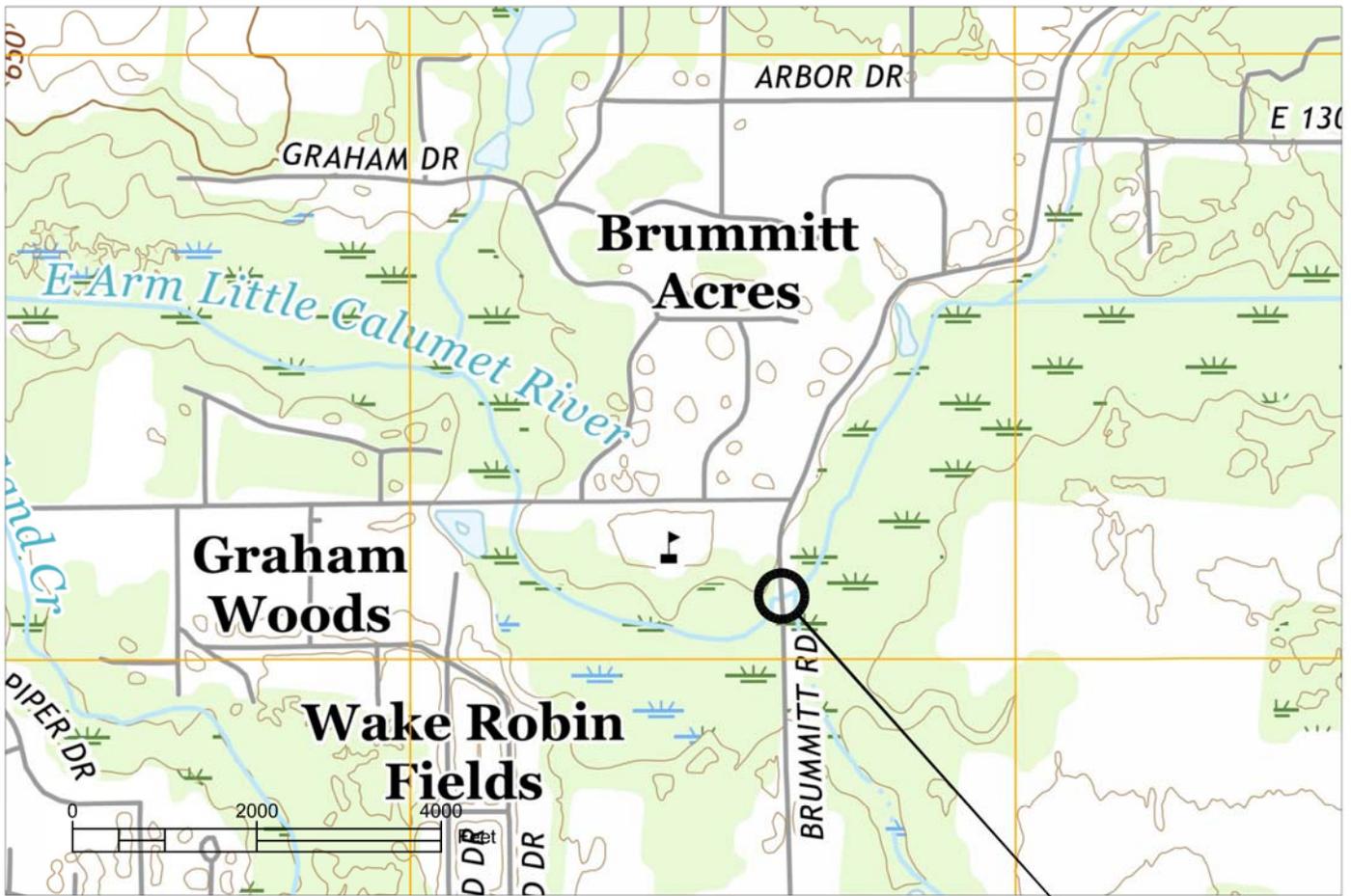


8415 E. 56th Street  
 Indianapolis, Indiana 46216  
 Phone: (317) 544-4996  
 Fax: (317) 544-4997

**PORTER COUNTY**  
**Bridge Number 168**

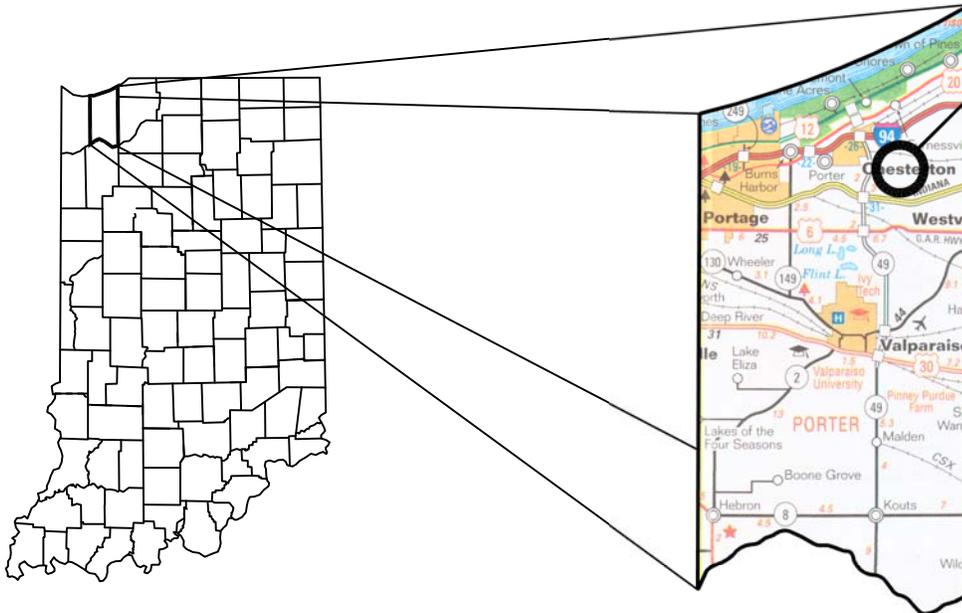
**LOCATION MAP**  
 CR 250 E over East Arm Little Calumet River

HORIZONTAL SCALE	BRIDGE FILE
1" = 2000'	n/a
VERTICAL SCALE	DESIGNATION
n/a	1702828
SURVEY BOOK	SHEETS
	1 of 1
CONTRACT	PROJECT
	2018-133



Section 32, Township 37 N, Range 5 W  
 Westchester Township, Porter County Indiana

**PROJECT SITE**



**PORTER COUNTY**



**Temporary and Permanent Impact Stream Summary—Below OHWM**  
**Porter County Bridge No. 168 Replacement (DES 1702828)**  
**CR 250 East (Brummitt Rd) over East Arm Little Calumet River**  
**Porter County, Indiana**

	Total Impacts
<i>Total Cumulative Length of Stream Impacts, ft (permanent)</i>	79.5
<i>Total Cumulative Disturbed Area Stream, Acres (permanent)</i>	0.019
<i>Total Cumulative Volume of Stream Impacts, cyd (permanent)</i>	91.27

Stream Name	East Arm Little Calumet River	UNT No. 1	UNT No. 2	UNT No. 3
<i>OHWM Depth (ft)</i>	45.0	1.0	1.0	0.5
<i>OHWM Width (ft)</i>	4.0	5.0	3.0	3.0

Permanent Stream Impacts						
Impacts (below OHWM)	Length (ft)	Ave Width (ft)	Depth (ft)	Area (acre)	Volume (cyd)	
UNT No. 1 (No Permanent Impact)						
UNT No. 2 (No Permanent Impact)						
UNT No. 3 (No Permanent Impact)						
East Arm Little Calumet River						
Cast-in-Place Concrete (Proposed Bridge Pier-South)	28.0	1.75	1.0	0.001	5.44	
Cast-in-Place Concrete (Proposed Bridge Pier-North)	51.5	15.0	3.0	0.018	85.83	
<b>Total Permanent Stream Impacts</b>	<b>51.5</b>			<b>0.019</b>	<b>91.27</b>	
Temporary Stream Impacts						
East Arm Little Calumet River						
Temporary Cofferdam South	175.5	4.0	4.0	0.016	104.0	
Temporary Cofferdam North	146.5	32.5	4.0	0.109	705.37	

**Notes:**

1. Permanent and temporary impact lengths overlap linear foot of stream impacts. Total permanent impact= 51.5 LFT. Total temporary LFT of impact=175.5.
2. Temporarily impacted areas will be restored to their existing conditions utilizing native seed mix and plantings.
3. Temporary impacts utilize the “worst-case” scenario. Contractor means and methods may result in decreased temporary impacts.
4. Length, width and depth measurements taken as averages and from the Waters of the United States Report included as supporting documentation within this permit application.

**Wetland Impact Summary—Below OHWM**  
**Porter County Bridge No. 168 Replacement (DES 1702828)**  
**CR 250 East (Brummitt Rd) over East Arm Little Calumet River**  
**Porter County, Indiana**

Total Impacts	
Total Cumulative Disturbed Area Wetland, acres (permanent)	0.097
Total Cumulative Fill Quantity Wetland, cyd (permanent)	309.67

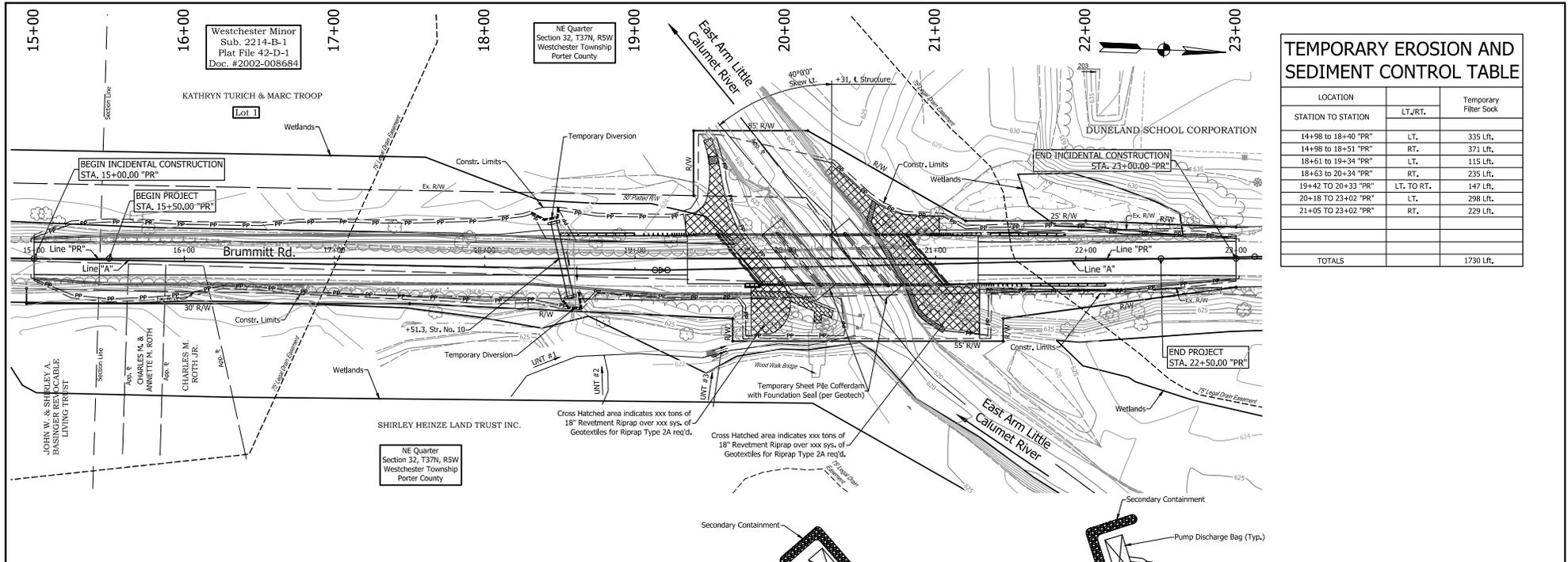
Total Wetland Area in Project Limits				
Wetland Name	Wetland 1	Wetland 2	Wetland 3	Wetland 4
Area (acre)	0.91	0.56	0.07	0.39
Cowardin Class	PFO1A	PFO1A	PFO1A	PFO1A

**Notes:**

Wetland Impacts		
Impacts (below OHWM)	Area (acre)	Fill Quantity (cyd)
Wetland 1 (PFO1A No Impact)		
Wetland 2 (PFO1A)		
Earthen Fill	0.095	306.48
Wetland 3 (PFO1A)		
Earthen Fill	0.002	3.19
Wetland 4 (PFO1A No Impact)		
<i>Total Permanent Impacts</i>	0.097	309.67

1. Wetland areas were avoided and minimized during the design process. Unavoidable impacts are quantified in the above tables and in the "Proposed Impact" displays.
2. See attached "Waters of the United States" report for further evaluation of Wetland and Stream Characteristics.
3. Preventative measures will be implemented as shown in the plans to ensure the construction activities do not disturb wetlands beyond the construction limits.





### TEMPORARY EROSION AND SEDIMENT CONTROL TABLE

LOCATION	LT./RT.	Temporary Filter Sock
STATION TO STATION		
14+98 to 18+40 "PR"	LT.	335 Lft.
14+98 to 18+51 "PR"	RT.	371 Lft.
18+61 to 19+34 "PR"	LT.	115 Lft.
18+63 to 20+34 "PR"	RT.	235 Lft.
19+42 to 20+33 "PR"	LT. TO RT.	147 Lft.
20+18 TO 23+02 "PR"	LT.	298 Lft.
21+05 TO 23+02 "PR"	RT.	229 Lft.
TOTALS		1730 Lft.

#### EROSION CONTROL NOTES:

Disturbed areas shall be stabilized within 14 days of inactivity. Disturbed areas shall be restored to their existing conditions prior to the completion of the project.

For Perimeter Protection Filter Sock Details, see INDOT Standard Drawing Sheet E 205-TECD-10.  
For Temporary Erosion Control Perimeter Construction Entrance Details, see INDOT Standard Drawing Sheet E 205-TECD-12.

#### DEWATERING NOTES:

The contractor shall be responsible to submit a plan to the Engineer for protecting the waterway during construction activities. No construction debris shall enter the waterway. The contractor will maintain a clean work site throughout construction.

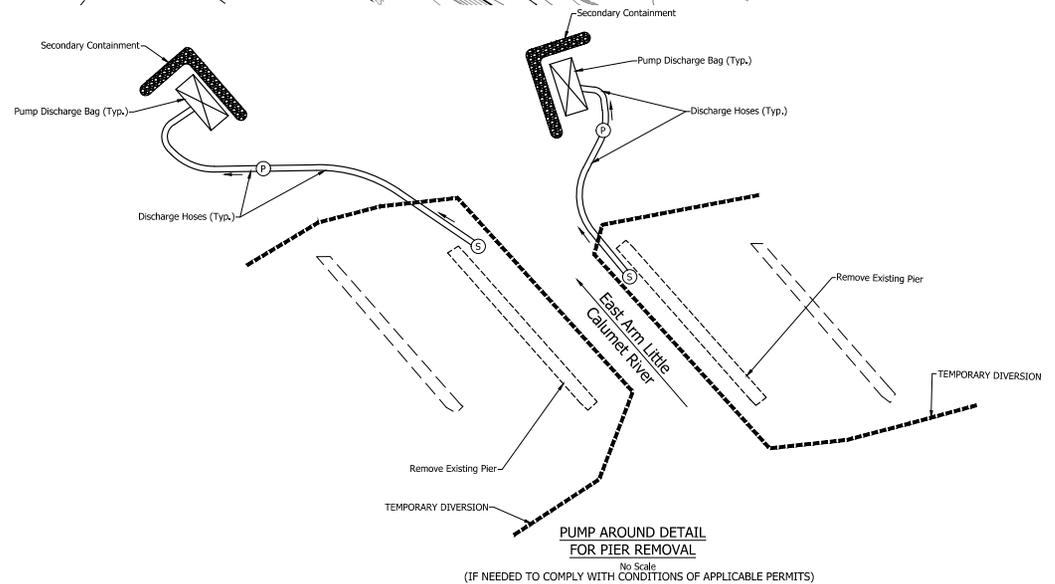
All hose intake and outlets shall be placed on stable subgrades and be equipped with screens to prevent the uptake of aquatic flora and fauna.

Contractor shall design, furnish, install, test, operate, monitor and maintain a dewatering system of sufficient scope, size, and capacity to prevent water flow into excavations and allow water and construction operations to proceed on dry, stable subgrades.

Contractor to determine method for cofferdam construction and dewatering. Revisions to the erosion control details may require the contractor to submit any revisions to the appropriate jurisdictional agency.

Contractor is responsible for adhering to the local, state and federal permit conditions as included in the contract documents. Any deviations from the permit conditions will be the responsibility to coordinate with the appropriate regulatory agency at no cost or delay to the project.

Cofferdams shall not restrict more than 50% of the waterway opening. Phasing of cofferdams may be required.



— PP — Perimeter Protection (Filter Sock)  
- - - - - Temporary Diversion

NOT FOR CONSTRUCTION

DESIGNED: BMA DRAWN: BDC  
CHECKED: MJH CHECKED: BMA

INDIANA  
DEPARTMENT OF TRANSPORTATION  
EROSION AND SEDIMENT CONTROL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	64-00168
VERTICAL SCALE	DESIGNATION
—	1702828
SURVEY BOOK	SHEETS
—	9 OF 25
CONTRACT	PROJECT
B-41172	1702828

PROJECT	DESIGNATION NO.
1702828	1702828
CONTRACT	BRIDGE FILE
S-41172	64-00168

# INDIANA DEPARTMENT OF TRANSPORTATION



STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
64-00168	Continuous Haunched Reinforced Concrete Slab Bridge	3 Spans: 39'-3", 45'-0", 39'-3" Skew: 40° Lt.	East Arm Little Calumet River	20+31 "PR"

TRAFFIC DATA		
A.A.D.T. (2022)	2535	V.P.D.
A.A.D.T. (2042)	4194	V.P.D.
D.H.V. (2042)	400	V.P.H.
DIRECTIONAL DISTRIBUTION		50 %
TRUCKS		6 % D.H.V. 5 % A.A.D.T.

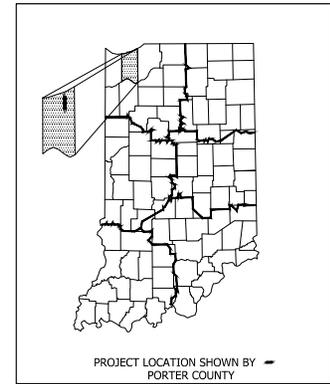
  

DESIGN DATA	
DESIGN SPEED	35 MPH
PROJECT DESIGN CRITERIA	3R Non Freeway
FUNCTIONAL CLASSIFICATION	Collector (Suburban)
RURAL/URBAN	Urban
TERRAIN	Level
ACCESS CONTROL	None

## BRIDGE PLANS FOR SPANS OVER 20 FEET ON COUNTY ROAD 250 EAST OVER EAST ARM LITTLE CALUMET RIVER PROJECT NO. 1702828 P.E. 1702828 R/W 1702828 CONST.

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

ROBERT W. THOMPSON, AICP - PORTER COUNTY EMPLOYEE IN RESPONSIBLE CHARGE (ERC)



LATITUDE: 41°36'55.79" N LONGITUDE: 87°00'59.90" W

BRIDGE LENGTH = 0.024 mi.  
ROAD LENGTH = 0.109 mi.  
TOTAL LENGTH = 0.133 mi.  
MAX. GRADE = -0.74%

HUC: 040400010402

BRIDGE REPLACEMENT ON COUNTY ROAD 250 EAST OVER  
EAST ARM LITTLE CALUMET RIVER,  
THE PROJECT IS LOCATED 1.3 MILES EAST OF SR 49 IN  
SECTION 32, T-37-N, R-5-W, WESTCHESTER TOWNSHIP, PORTER COUNTY

APPROVED BY  
PORTER COUNTY BOARD OF COMMISSIONERS

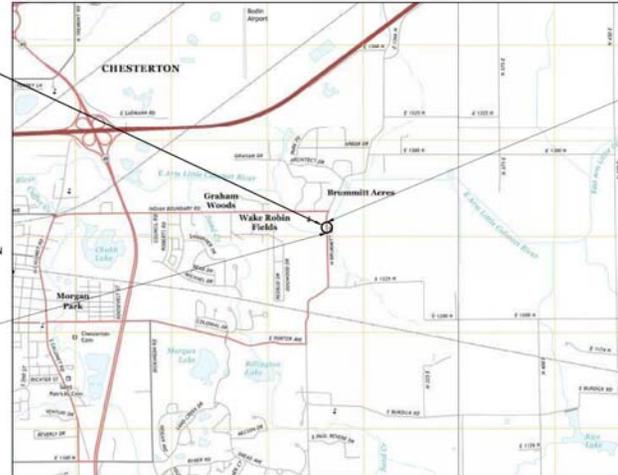
ATTEST \_\_\_\_\_ DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

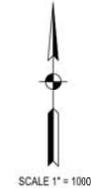
STR. NO. 64-00168  
Project No. 1702828

BEGIN PROJECT  
STA. 15+50 "PR"

END PROJECT  
STA. 22+50 "PR"



LOCATION MAP



STAGE 2 PLANS 4-30-2020

INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2020  
TO BE USED WITH THESE PLANS



PLANS PREPARED BY: **USI Consultants, Inc.** 317-544-4996  
PHONE NUMBER

CERTIFIED BY: \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED FOR LETTING: \_\_\_\_\_ DATE \_\_\_\_\_

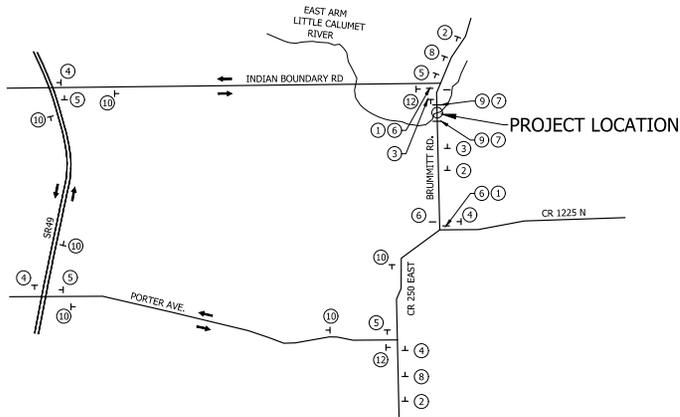
INDIANA DEPARTMENT OF TRANSPORTATION

NOT FOR CONSTRUCTION

BRIDGE NO.	64-00168
DESIGNATION NO.	1702828
SHEETS	1 of 24
CONTRACT	S-41172
PROJECT NO.	1702828







DETOUR ROUTE MAP

SIGN LEGEND				
SYMBOL	MESSAGE	NUMBER	TYPE	REQ'D.
①	BRUMMITT ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	R11-3	A	*2
	DETOUR(R or L)	XM-10	B	*2
②	ROAD CONSTRUCTION AHEAD	XW20-1	A	3
③	ROAD CLOSED 300 FT.	XW20-3	A	2
④	DETOUR ROUTE MARKER ASSEMBLY (LEFT)			4
⑤	DETOUR ROUTE MARKER ASSEMBLY (RIGHT)			4
⑥	STANDARD BARRICADE TYPE III-B			48 Lft.
	ROAD CLOSURE SIGN ASSEMBLY			2
⑦	STANDARD BARRICADE TYPE III-A			48 Lft.
	ROAD CLOSURE SIGN ASSEMBLY			2
⑧	DETOUR AHEAD	XW20-2	A	2
⑨	ROAD CLOSED	R11-2	A	*2
⑩	DETOUR ROUTE MARKER ASSEMBLY (CONFIRMING)			6
⑫	DETOUR ROUTE MARKER ASSEMBLY (END DETOUR)			2

2-XG20-6 Sign to be placed at site a minimum of 10 business days prior to Road Closure.  
(2-Type "A" Signs req'd.)

\* Cost of Sign to be included in the cost of "Road Closure Sign Assembly"

NOT FOR CONSTRUCTION

DESIGNED: BMA	DRAWN: DWB
CHECKED: MBH	CHECKED: BMA

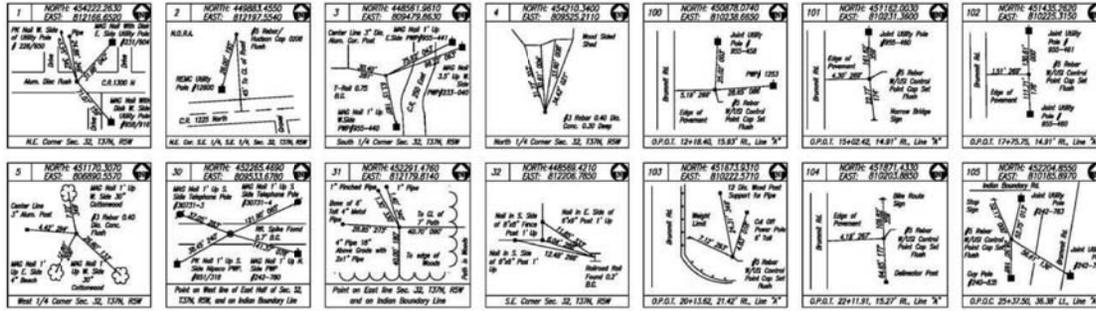
INDIANA  
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE

HORIZONTAL SCALE 1"=1000'	BRIDGE FILE 64-00168
VERTICAL SCALE ---	DESIGNATION 1702828
SURVEY BOOK ---	SHEETS 4 of 24
CONTRACT E-41172	PROJECT 1702828



Section Corner, Control Point and Centerline References



Surveyor's Report

Located in Section 32, Township 37 North, Range 5 West, in Westchester Township, in Porter County.

The purpose of this survey is to collect data for the preparation of construction and right of way plans. This is not a property retracement survey. Any apparent property, subdivision, or easement lines or corners are based on the last deeds of record obtained from the County Recorder's Office. These lines in no way represent property, subdivision, or easement lines that could be determined from a retracement property survey. They are preliminary and should not be used to represent a retracement property survey. No monuments were set to represent the same. In addition, any monuments depicted on this plan indicated as being found or set should be used only for the above stated purpose.

Field measurements for this survey were in accordance with the specifications outlined in IAC 805.1-14. Measurements are shown to the nearest 0.01 feet, coordinates to the nearest 0.0001 feet, and the bearings to the 0.001 seconds, not to indicate the precision of the work, but to allow for closure and adjustment by others if desired. Units are US Survey Feet unless otherwise noted.

Horizontal Control

The horizontal control for this project is based on the Indiana Geospatial Coordinate System (IGCS), Porter Zone, North American Datum of 1983 (NAD83) EPOCH 2010.0, US Survey Feet. Said system was ascertained by Real Time Kinematic (RTK) GPS observations from Trimble's VRS NOW Continuously Operating Reference System (www.now.us). This system will govern the project for design, right of way computations and layout. Geometric datum and map projection parameters for this IGCS Zone are as follows:

Coordinate System : Indiana Geospatial Coordinate System  
 Zone : Porter  
 Datum : NAD83 (2011) EPOCH 2010.0  
 Ellipsoid Name : GRS 80  
 Geoid Model : Geoid12B

Zone Parameters  
 Latitude of Grid Origin : 40°42'00.7"N  
 Longitude of Central Meridian : 87°06'00.7"W  
 Central Meridian S.F. : 1.0000027  
 False northing offset : 11818.10  
 False easting offset : 7874.00

The Trimble VRS NOW's RTK Systems continuously operating reference stations (CORS) were used to measure dual RTK vectors on all control points and section corners. These dual vectors were compared and adjusted using Trimble Business Center software.

Reference Monumentation

Control Points - See references and Point Data Table - Estimated relative positional accuracy of these points due to random errors in the measurement or staking of these monuments is +/- 0.30 feet.

Section Corners - See Section Corner Detail and References - Estimated relative positional accuracy of these points due to random errors in the measurement of these monuments is +/- 0.30 feet.

The following corners were found per information found in the Office of the County Surveyor. Lacking obvious evidence to the contrary, these monuments were held as prima facie evidence of the respective corners with negligible uncertainty.

- 1 - Northeast Corner of Section 32, T37N, R5W - Aluminum Disc Found Flush
- 2 - Northeast Corner of the Southeast 1/4 of the Southeast 1/4 of Section 32, T37N, R5W - Capped #5 Rebar Found Flush (H208 Hubdon)
- 3 - South 1/4 Corner of Section 32, T37N, R5W - Rail Found 0.7' B.G.
- 32 - Southeast Corner of Section 32, T37N, R5W - Rail Found 0.25' B.G.

The following monuments were found to be in harmony with the surrounding features and was therefore accepted as the best evidence available for their respective corners:

- 4 - North 1/4 Corner of Section 32, T37N, R5W - #3 Rebar Set in 0.4' Diameter Concrete Found 0.3' B.G.
- 5 - West 1/4 Corner of Section 32, T37N, R5W - #3 Rebar Set in 0.4' Diameter Concrete Found Flush
- 30 - Point on West Line of East Half of Section 32, T37N, R5W and on Indian Boundary Line - Railroad Spike Flt. # 8' B.G. in keeping with Reference Survey 1.
- 31 - Point on East Line of Section 32, T37N, R5W and on Indian Boundary Line - 4" Diameter Pipe Found 18' B.G.

Point Number 40 was held as an iron pin found as shown on Reference Survey 3.

Alignments

Alignment "A" was established by best fit with the existing pavement.

Reference Surveys

- 1) "Brummitt Acres" Subdivision, by Chester L. Stemp and Associates, dated 03/24/1955, and recorded in the Porter County Recorder's Office in File 2-A-6.
- 2) "Westchester Minor Subdivision 2224-B-1", by Deves-Rensberger Surveying, dated 01/14/2002, and recorded in the Porter County Recorder's Office as document #2002-068684.
- 3) "Flat of Survey" as made by Charles M. Roth by L.J. Hutson & Associates, date 2-10-1995, and recorded in the Porter County Recorder's Office as document #5-03105.

Right of Way

The Right of Way is shown as being a prescriptive R/W located along the edge of pavement, with the exception of the area on the west side of the road covered by Reference Survey 2, which shows a 10' width from the center of the road. The R/W at the intersection of Brummitt Road and Indian Boundary Road is shown per Reference Survey 1.

Based on a conversation with Porter County Engineering the width of Brummitt Road varies from 40' to 60'. No petition for or acceptance of the R/W from commissioners records was provided to this surveyor.

The right of way, parcel lines and ownership information shown on this plan are preliminary. This information is shown only to help orient the user of this plan as it relates to the centerlines. The source of this information is from the last deed of record obtained from the County Recorder's Office as well as the above-mentioned plans. The consultant responsible for the Right of Way Engineering will complete the final determination of this information.

Point Data Table

Point #	Station	Type	INOCS Northing	INOCS Easting	Latitude	Longitude
1	NE Cor. Sec. 32-T37N-R5W	Aluminum Disc Found Flush	45422.3630	812166.6030	41°17'20.6687"	-87°19'31.8179"
2	NE Cor. of SE 1/4 of SE 1/4 Sec. 32-T37N-R5W	Capped #5 Rebar Found Flush (H208 Hubdon)	44881.6510	812167.5540	41°18'31.8237"	-87°19'31.5717"
3	S 1/4 Cor. Sec. 32-T37N-R5W	Rail Found 0.7' B.G.	44881.8610	809479.8030	41°18'24.7947"	-87°19'18.3024"
4	N 1/4 Cor. Sec. 32-T37N-R5W	#3 Rebar Set in 0.4' Dia. Conc. Found 0.3' B.G.	454210.3400	809629.7110	41°17'20.6687"	-87°19'18.6967"
5	W 1/4 Cor. Sec. 32-T37N-R5W	#3 Rebar Set in 0.4' Dia. Conc. Found Flush	451170.3070	809880.5370	41°18'31.9817"	-87°19'18.4177"
30	Point on West line of East Half of Sec. 32-T37N-R5W and on Indian Boundary Line	Railroad Spike Flt. 0.7' B.G.	452385.4886	809633.6790	41°17'31.3634"	-87°19'18.6932"
31	Point on East line of Sec. 32-T37N-R5W and on Indian Boundary Line	4" Dia. Pipe Found 1.8' B.G.	452391.4780	812179.8140	41°17'31.8134"	-87°19'23.7717"
32	SE Cor. Sec. 32-T37N-R5W	Rail Found 0.25' B.G.	448889.4210	812058.7890	41°18'24.8418"	-87°19'23.4618"
40	Boundary Evidence	Rebar Set Found 0.3' B.G.	451036.8894	810220.2852	41°18'16.3627"	-87°19'29.5817"
100	O.P.C.T. 12+18.40, 15.87 RL, Line 54'	#5 Rebar W/50 Control Point Cap Set Flush	450878.0740	810226.8620	41°18'14.8887"	-87°19'29.3447"
101	O.P.C.T. 15+02.42, 14.81' RL, Line 54'	#5 Rebar W/50 Control Point Cap Set Flush	451162.8030	810231.3630	41°18'30.4744"	-87°19'29.4337"
102	O.P.C.T. 17+75.75, 14.81' RL, Line 54'	#5 Rebar W/50 Control Point Cap Set Flush	451435.2620	810235.3100	41°18'53.1047"	-87°19'29.5104"
103	O.P.C.T. 20+13.82, 21.47' RL, Line 54'	#5 Rebar W/50 Control Point Cap Set Flush	451673.8310	810232.5710	41°18'55.6327"	-87°19'29.5488"
104	O.P.C.T. 22+11.91, 15.27' RL, Line 54'	#5 Rebar W/50 Control Point Cap Set Flush	451871.4330	810230.8800	41°18'57.4837"	-87°19'29.7288"
105	O.P.C.T. 25+37.50, 38.38' LL, Line 54'	#5 Rebar W/50 Control Point Cap Set Flush	452204.8000	810165.8910	41°19'16.7777"	-87°19'16.6228"

Vicinity Map (N.T.S.)



SURVEY STARTED 01/04/2019 SURVEY COMPLETED 02/07/2019 ROUTE PLAT SHEETS 2 OF 2		<b>2019-004140</b> STATE OF INDIANA FILED FOR RECORD PORTER COUNTY RECORDER CHUCK HARRIS 3/27/2019 9:13 AM		SURVEYOR STATEMENT This survey, to the best of my knowledge and belief, is executed according to the provisions of Title 805 IAC 1-12-20 through 1-12-26 regarding Route Surveys, except that any data shown regarding the location or description of the existing parcels is not a part of this survey.		AFFIRMATION STATEMENT I affirm, under the penalties for perjury, that I have taken reasonable care to collect each Social Security number in this document, unless required by law. By Mark A. Schepers RECOMMENDED FOR APPROVAL AND PREPARED BY: SIGNATURE: <i>Mark A. Schepers</i> DATE: 02/21/2019		8415 East 58th St. Indianapolis, IN 46216 PH 317.544.0066 FAX 317.544.4897		CR 250E (A.K.A. BRUMMITT ROAD) OVER EAST ARM OF LITTLE CALUMET RIVER - BRIDGE REPLACEMENT PORTER COUNTY LOCATION CONTROL ROUTE SURVEY		HORIZONTAL SCALE 1" = 60' COUNTY DESIGNATION PORTER		SURVEY BOOK 6 OF 24 CONTRACT PROJECT B-41172 1702828	
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USW 2018-133







